

**EXHAUST GAS REFLUX CONTROL DEVICE**

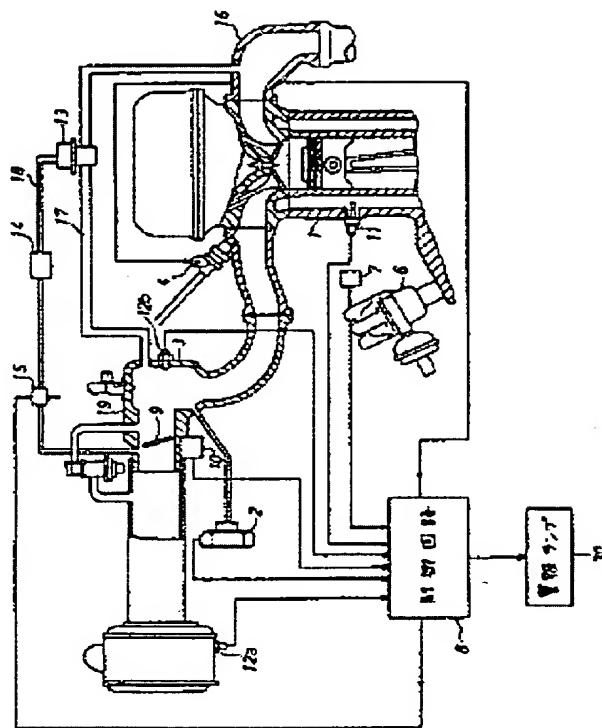
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**Abstract of JP63134844**

**PURPOSE:** To make self-diagnosis possible for exhaust gas recirculation with a simple construction by judging abnormality of an exhaust gas recirculation equipment based on the difference between an intake air temperature detected upstream from a throttle valve and an intake air temperature near an exhaust gas recirculating port positioned downstream from the throttle valve.

**CONSTITUTION:** To a control circuit 8 are inputted detection values sensed by an intake air pipe pressure sensor 2, an engine speed sensor 7, a throttle position sensor 10, a water temperature sensor 11, the first intake air temperature sensor 12a installed upstream from a throttle valve 9, and the second intake air temperature sensor 12b installed near the recirculating port in an exhaust gas recirculating path 17 downstream from the throttle valve 9. When EGR operating conditions that water temperature is over about 70 deg.C and engine speed is below about 4,000rpm are established, the control circuit controls valve-opening of an EGR valve 13 to operate EGR through an electromagnetic valve 15. And when a difference between the temperature detected by the first intake air temperature sensor 12a and that detected by the second air temperature sensor 12b is below a specified value, the control circuit judges that the exhaust gas reflux equipment fails, causing an alarm lamp to light.



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